USER OPERATING INSTRUCTIONS

RETRACTABLE WHEELCHAIR TIE-DOWNS

FR01, FR02, FR03, FR04, FR05
FRS01

Read instructions carefully before use and follow them for correct use.

It is recommended that training be given on the proper use of this product.

Retain this manual for future reference.

Please include it with the product in the event of transfer to new users.

Additional copies are available upon request.

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CONTENTS

A. Limitations of use
B. General Guidance
C. Before Using the Retractable Tie-downs
D. Fitting FR01, FR02, FR03, FR04
E. Fitting FRS01
F. Fitting FR05
G. Equipment, Storage & Maintenance
H. Product Range

A. LIMITATIONS OF USE

1. Unwin retractable wheelchair tie-downs are designed to secure the front or rear of the wheelchair when facing forward in the vehicle and must be used as instructed.
2. In addition to the details given in these Instructions, users of Unwin retractable tie-downs must refer to the wheelchair manufacturer's 'Instructions For Use in Transport' for full details of tie-down attachment points on the wheelchair, plus any other specific instructions relating to use in transport.
3. Wheelchair users and their carers must make sure that their wheelchair is recommended for use in transport, including any 'add-on' components such as power tilt or recline options.
4. To secure the wheelchair for transport, it must have a front and a rear tie-down.
5. An occupant restraint system will be required when the wheelchair is occupied by a passenger whilst in transport. (See Unwin Instructions UI2055 for Occupant Restraint Systems).
6. Unwin products are extensively tested using Unwin Rail and Solo anchors and our full warranty applies to Unwin equipment fitted and used in accordance with our instructions.
7. The development of Unwin wheelchair tie-downs is a continuous process. Applications are added on a regular basis. Contact Unwin Safety Systems for full updates or look on Unwin's website.

B. GENERAL GUIDANCE

1. Wheelchair Accessories that have not been approved by the Wheelchair Manufacturer must be removed from the wheelchair and secured in the vehicle during transport to reduce the potential for injury. Refer to 'Instructions For Use in Transport' provided with the wheelchair or contact wheelchair manufacturer for further guidance.
3. Please read this manual before using Unwin retractable tie-downs.
4. Regular inspection of all parts is recommended. Equipment should be used only if all components are in good condition.
5. Replace equipment when the webbing becomes cut, contaminated or frayed.

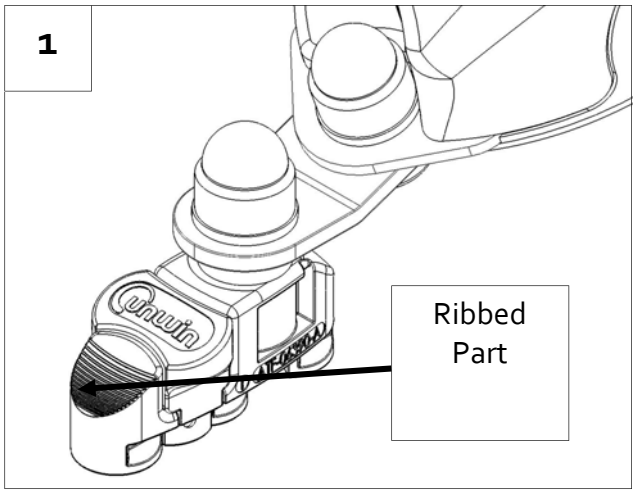
3. Any restraints which have been subjected to a crash situation should, in the interest of safety, be replaced immediately.
4. Do not attempt to modify the equipment. If there is a problem please contact Unwin Safety Systems.
5. Avoid contact with corrosive liquids and keep the webbing away from sharp edges. Care should be taken to prevent contamination of the webbing with polishes, oils and chemicals.
6. If the proposed installation cannot be made to comply with the following requirements, please contact Unwin Safety Systems.

C. BEFORE USING THE RETRACTABLE TIE-DOWNS

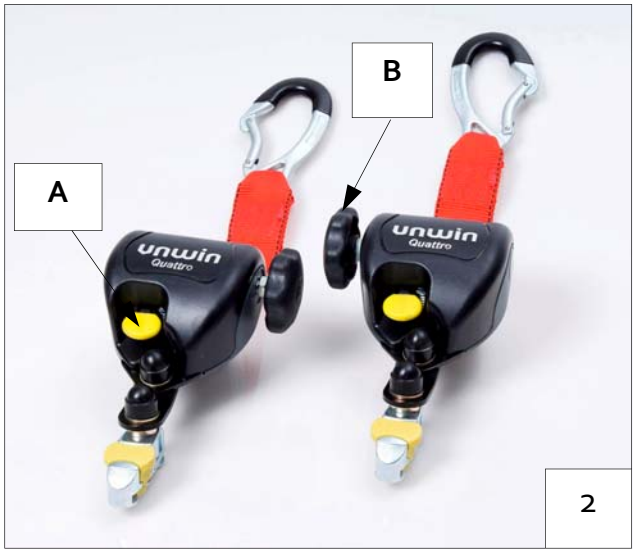
1. Ensure that the wheelchair is correctly maintained and that settings of any adjustable parts are made according to 'Instruction for Use in Transport'.
2. Remove any items of luggage that may be attached to the wheelchair and secure or store separately during transport in order to reduce the potential for injury to other passengers travelling in the vehicle.
3. Extra care must be exercised when using vehicle boarding aids such as passenger lifts or ramps during the loading process. Refer to 'Instructions For Use' for information on safe slopes.
4. Position the wheelchair facing forward - centrally in the designated region of the vehicle. **Ensure wheelchair brakes are applied.**
5. To minimise the potential for head injuries in an impact, allow a clear space of at least 400 mm behind and 650 mm in front of the head of the wheelchair user. The shoulder belt anchorage must be side-wall anchored at a height level with or above occupant shoulder level.
6. A height provision ranging from 1200mm to 1550mm should be made, depending on the size of the passenger. There should also be 200 mm of clear space either side of the wheelchair. If these clear space dimensions cannot be provided then any structure protruding into this space should be adequately padded.
7. Wheelchair users, their carers and family are advised to check vehicle specifications to ensure that sufficient floor space is available to accommodate the wheelchair and the tie-down system. Users of heavy powered wheelchairs are also advised to check the vehicle carrying capacity. If in doubt consult vehicle supplier for further details.

D. FITTING FR01, FR02, FR03, FR04

1. To attach the retractable tie-downs into the rail, match the feet of the ATF with the cut-out sections of the rail and locate into rail.
2. Press on the ribbed part of the ATF (Fig 1) and push firmly towards the wheelchair until the yellow clip drops and locks into place. Install the second clip. The position of this must be in line with the first. **IMPORTANT: Check the plungers are fully engaged on both sides.**



3. Press the release button (Fig 2A) and extend the webbing.
4. Attach the karabiner or tongue & buckle (depending on model) around the wheelchair frame.
5. Press the release button (Fig 2A) to take up the slack on the webbing and create an angle of around 40 to 45°.
6. If the retractable restraints are used as a front tie-down, pull the wheelchair backward to ensure the front straps are tensioned. A rear tie-down must now be fitted.



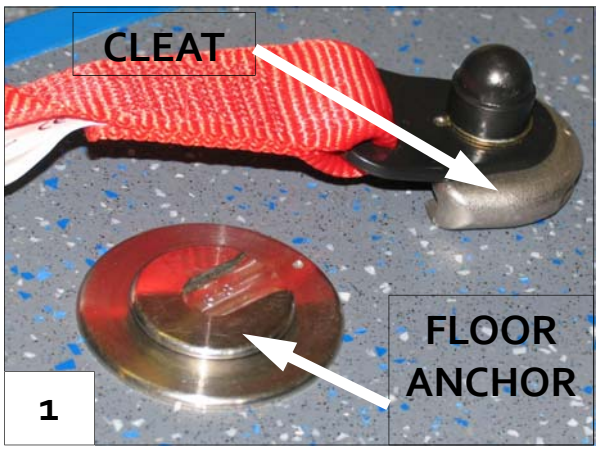
5. If the retractable restraints are used as rear restraint, final tensioning is achieved by turning the tensioning handles (Fig 2B) until the webbing is equally taut on each Quattro unit.
6. A passenger restraint must now be fitted. Please refer to appropriate user instructions.

<u>To remove the retractable tie-downs:</u>

1. Before releasing the Quattro ensure the wheelchair brakes are applied.
2. Tightened the handle slightly to release the tension in the system and then press the yellow release button of one of the Quattro reels to release the webbing.
3. Remove the Karabiner from wheelchair frame or unfasten the tongue & buckle and remove webbing from the wheelchair frame. Guide the webbing as it retracts into the rear housing reel.
4. Release the yellow button.
5. Lift the yellow retaining ATF clip fully and pull away from the wheelchair to remove the front straps from the rail. Repeat operation with the other Quattro.

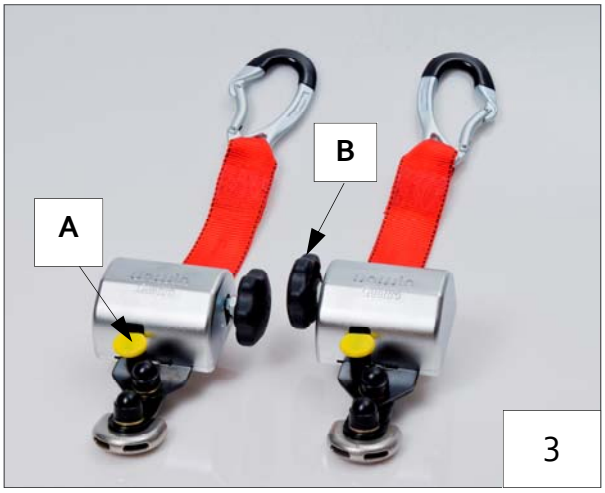
E. FITTING FRS01

1. Attach FRS01 onto the front anchor points by aligning the button within the cleat to the slot on the floor anchors (Fig 1).
2. Slide the cleat fully home (Fig 2), rotate the assembly through 90°.
3. Press the yellow button (Fig 3A) to release the webbing and attach the Karabiner to the wheelchair frame creating an angle of around 40 to 45°.
4. If FRS01 is used as a front tie-down, pull the wheelchair backward to ensure the front straps are tensioned. A rear tie-down must now be fitted.
5. If FRS01 is used as rear restraint, final tensioning is achieved by turning tensioning handles (Fig 3B) until the webbing is equally taut on each Quattro unit.
6. A passenger restraint must now be fitted. Please refer to appropriate user instructions.



<u>To remove the retractable tie-downs:</u>

1. Before releasing the wheelchair restraint ensure the wheelchair brakes are applied.
2. Tighten the handle slightly to release the tension in the system, and then press yellow release button of one of the Quattro reels to release the webbing.
3. Remove the Karabiner from the wheelchair frame and guide the webbing as it retracts into the housing reel.
4. Release the yellow button.
5. Turn the cleat back through 90° to release and slide it off of the floor anchor point. Repeat operation with the other Quattro.



F. FITTING FR05

FR05

1. To attach the above straps into the rail, match the feet of the ATF with the cut-out sections of the rail and locate into rail.
2. Press on ribbed part of the ATF (Fig 1) and push firmly towards the wheelchair until the yellow clip drops and locks into place. Install the second clip. The position of this must be in line with the first. **IMPORTANT: Check the plungers are fully engaged on both sides.**
3. Pull the FR05 webbing and attach the karabiner to the wheelchair frame to create an angle of around 40 to 45°. The self-tensioning mechanism will automatically remove any slack in the webbing. **IMPORTANT: The yellow positive locking label must be clearly visible, to ensure that the reel is safely locked into place (Fig 2).** Repeat operation with the other Quattro Express.
4. Final tensioning is achieved by turning tensioning handles until the webbing is equally taught on each unit (Fig 3). **IMPORTANT: Following final tensioning, ensure the yellow positive locking label is still visible (Fig 2).**
5. If the FR05 is used as a front tie-down, then a rear tie-down must now be fitted. Please refer to the appropriate user instructions.
6. If the FR05 is used as rear restraint, a passenger restraint must now be fitted. Please refer to appropriate user instructions.

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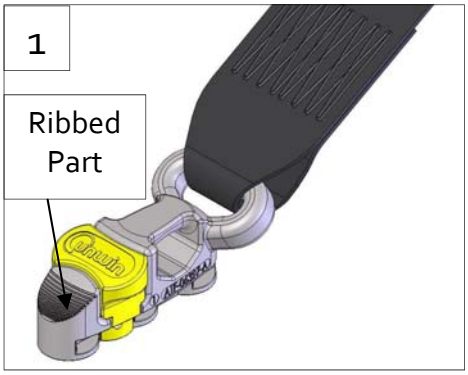

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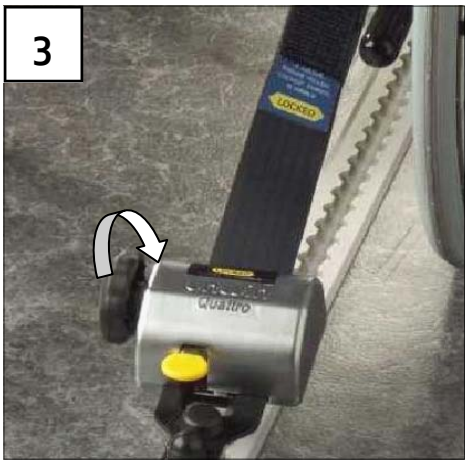

<u>To remove the retractable tie-down:</u>

1. Before releasing the restraint, ensure the wheelchair brakes are applied.
2. Tightened the handle slightly to release the tension in the system, and then press the yellow release button of one of the Quattro Express to slacken the webbing.
3. Holding the webbing, remove the karabiner from the wheelchair frame and let the webbing retract gently in to the Quattro Express metal housing cover. **IMPORTANT: Do not release the Karabiner when the webbing is retracting, as you might damage the self tensioning mechanism.**
4. Lift the yellow retaining ATF clip fully and pull away from the wheelchair to remove the front straps from the rail. Repeat operation with the other Quattro Express.

G. EQUIPMENT, STORAGE AND MAINTENANCE

1. Store the retractable restraints safely off the floor to avoid damage and ensure that they cannot become a projectile in an accident. This can be achieved by using wall mounted storage rails or a stowage box.
2. Regularly inspect the Retractable Restraints for damage, wear or malfunction. If any problems are identified replace them immediately.
3. All webbings and components can be cleaned as necessary, but care should be taken to prevent contamination of the webbing with polishes, oils and chemicals.
4. To clean the straps use warm soapy water and a clean soft cloth. Rinse with clear water and allow to air dry. To disinfect use a mild spray disinfectant and do not use products containing bleach. **Important: when cleaning or disinfecting, do not immerse buckles, karabiners or rail fittings in the disinfectant or water.**
5. If the vehicle is involved in an accident when any restraints are deployed, remove them from service and replace immediately. If in doubt please contact Unwin Safety Systems.

H. PRODUCT RANGE

Track Fitting

FR01 Pair of Plastic Retractable Restraint with Tongue & Buckle

FR02: Pair of Plastic Retractable Restraint with Karabiner

FR03: Pair of Metal Retractable Restraint with Tongue & Buckle

FR04: Pair of Metal Retractable Restraint with Karabiner

FR05: Pair of Metal Retractable, Self Tensioning Restraint with Karabiner

Solo Fitting:

FRS01: Pair of Metal Solo Retractable Restraint with Karabiner

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